

Supplementary Online Content

Chang JH, Bushman BJ. Effect of exposure to gun violence in video games on children's dangerous behavior with real guns: a randomized clinical trial. *JAMA Netw Open*. 2019;2(5):e194319. doi:10.1001/jamanetworkopen.2019.4319

eAppendix. Games and Guns code and output

This supplementary material has been provided by the authors to give readers additional information about their work.

eAppendix. Games and Guns code and output

Notes:

- The CSV provided, “Games and Guns trim.csv”, is the dataset including all participants who were not excluded due to ineligibility or outliers. This includes participants who did not find the handguns. The majority of the analyses here trims off the participants who did not find the handguns, done as follows:
 - `ggr <- as.data.frame(gg.trim[gg.trim$FoundGun ==1,])`
- Note that the condition variable (`$Cond`) should be specified as a factor
- Libraries used are:
 - `library(fifer)`
 - `library(agricolae)`
 - `library(psych)`
 - `library(plotrix)`
- Some trivial calculations, like percentages, aren’t included in the code here
- The models run in STATA were done using the dataframe excluding those who did not find the gun (`ggr`)

Table 1

Sex by condition

```
> table(ggr$Sex, ggr$Cond)
```

```
      1  2  3
0 34 26 31
1 36 48 45
```

```
> table1 <- table(ggr$Cond, ggr$Sex)
> chisq.post.hoc(table1, test='chisq.test')
```

Adjusted p-values used the `fdr` method.

```
  comparison raw.p adj.p
1     1 vs. 2 0.1428 0.4284
2     1 vs. 3 0.4363 0.5857
3     2 vs. 3 0.5857 0.5857
```

```
> reg1 <- aov(Sex ~ Cond, data = ggr)
```

```
> summary(reg1)
```

```
      Df Sum Sq Mean Sq F value Pr(>F)
```

Cond	2	0.65	0.3266	1.345	0.263
Residuals	217	52.71	0.2429		

Age by condition, mean, and SD

```
> table(ggr$Age, ggr$Cond)
```

	1	2	3
8	14	14	23
9	18	11	10
10	10	24	14
11	16	14	12
12	11	11	17

```
> table1 <- table(ggr$Cond, ggr$Age)
> chisq.post.hoc(table1, test='chisq.test')
```

Adjusted p-values used the *fdr* method.

	comparison	raw.p	adj.p
1	1 vs. 2	0.1152	0.179
2	1 vs. 3	0.1540	0.179
3	2 vs. 3	0.1790	0.179

```
> mean(na.omit(ggr$Age[ggr$Cond == 1]))
```

```
[1] 9.884058
```

```
> mean(na.omit(ggr$Age[ggr$Cond == 2]))
```

```
[1] 9.959459
```

```
> mean(na.omit(ggr$Age[ggr$Cond == 3]))
```

```
[1] 9.868421
```

```
> sd(na.omit(ggr$Age[ggr$Cond == 1]))
```

```
[1] 1.39891
```

```
> sd(na.omit(ggr$Age[ggr$Cond == 2]))
```

```
[1] 1.307923
```

```
> sd(na.omit(ggr$Age[ggr$Cond == 3]))
```

```
[1] 1.552135
```

```
> reg1 <- aov(Age ~ Cond, data = ggr)
```

```
> summary(reg1)
```

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
--	----	--------	---------	---------	--------

```
Cond          2    0.4  0.1756  0.086  0.917
Residuals    216 438.6  2.0307
1 observation deleted due to missingness
```

```
> std.error(na.omit(ggr$Age[ggr$Cond == 1]))
[1] 0.1684089
> std.error(na.omit(ggr$Age[ggr$Cond == 2]))
[1] 0.152043
> std.error(na.omit(ggr$Age[ggr$Cond == 3]))
[1] 0.1780421
```

Race by condition

```
table(ggr$Race, ggr$Cond)
```

```
      1  2  3
1    0  1  2
2    9  8  8
3    2  3  0
4   53 54 56
5    5  8 10
```

```
> table1 <- table(ggr$Cond, ggr$Race)
> chisq.post.hoc(table1, test='chisq.test')
```

Adjusted p-values used the *fdr* method.

```
  comparison raw.p adj.p
1    1 vs. 2 0.7747 0.7747
2    1 vs. 3 0.2412 0.7019
3    2 vs. 3 0.4679 0.7019
```

```
> reg1 <- aov(Race ~ Cond, data = ggr)
> summary(reg1)
          Df Sum Sq Mean Sq F value Pr(>F)
Cond       2   0.13  0.0642   0.094   0.91
Residuals 216 147.20  0.6815
1 observation deleted due to missingness
```

Trait aggression by condition, mean, and SD

```
> reg1 <- aov(BehMean ~ Cond, data = ggr)
```

```

> summary(reg1)
      Df Sum Sq Mean Sq F value Pr(>F)
Cond      2    0.79  0.3958   1.895  0.153
Residuals 217  45.31  0.2088

> out1 <- LSD.test(reg1, "Cond", p.adj = "none")
> out1

$`statistics`
      MSerror Df      Mean      CV
0.2087967 217 0.7384921 61.87511

$parameters
      test p.adjusted name.t ntr alpha
Fisher-LSD      none      Cond   3  0.05

$means
      BehMean      std  r      LCL      UCL  Min      Max      Q25      Q50      Q75
1 0.7019274 0.5072908 70 0.5942834 0.8095714 0.000 2.111111 0.2708333 0.6250000 0.8888889
2 0.6886261 0.4328174 74 0.5839318 0.7933204 0.000 2.125000 0.3750000 0.5902778 0.8888889
3 0.8207237 0.4301472 76 0.7174161 0.9240312 0.125 2.500000 0.5000000 0.7638889 1.0000000

$comparison
NULL

$groups
      BehMean groups
3 0.8207237      a
1 0.7019274      a
2 0.6886261      a

attr(,"class")
[1] "group"

> std.error(na.omit(ggr$BehMean[ggr$Cond == 1]))
[1] 0.06063285
> std.error(na.omit(ggr$BehMean[ggr$Cond == 2]))
[1] 0.050314
> std.error(na.omit(ggr$BehMean[ggr$Cond == 3]))
[1] 0.04934127

```

Violent media exposure by condition, mean, and SD

```
> reg1 <- aov(MediaExps ~ Cond, data = ggr)
> summary(reg1)
          Df Sum Sq Mean Sq F value Pr(>F)
Cond         2      2.7   1.328   0.371  0.691
Residuals  217  777.0   3.580

```

```
> out1 <- LSD.test(reg1, "Cond", p.adj = "none")
> out1

```

```
$`statistics`
  MSerror Df      Mean      CV
3.580468 217 6.537626 28.94342

```

```
$parameters
      test p.adjusted name.t ntr alpha
Fisher-LSD      none   Cond   3  0.05

```

```
$means
  MediaExps      std  r      LCL      UCL      Min      Max      Q25      Q50      Q75
1  6.442063 1.759503 70 5.996307 6.887820 2.777778 10.44444 5.027778 6.222222 7.861111
2  6.690691 1.967564 74 6.257149 7.124233 3.333333 11.88889 5.250000 6.500000 7.750000
3  6.476608 1.934743 76 6.048809 6.904408 2.555556 12.22222 5.194444 6.472222 7.472222

```

```
$comparison
NULL

```

```
$groups
  MediaExps groups
2  6.690691      a
3  6.476608      a
1  6.442063      a

```

```
attr("class")
[1] "group"

```

```
> std.error(na.omit(ggr$MediaExps[ggr$Cond == 1]))
[1] 0.2103009
> std.error(na.omit(ggr$MediaExps[ggr$Cond == 2]))
[1] 0.2287246

```

```
> std.error(na.omit(ggr$MediaExps[ggr$Cond == 3]))
[1] 0.2219303
```

Attitude toward guns by condition, mean, and SD

```
> reg1 <- aov(GunQMn ~ Cond, data = ggr)
> summary(reg1)
```

```
          Df Sum Sq Mean Sq F value Pr(>F)
Cond         1    1.38   1.382   3.705 0.0556 .
Residuals  215   80.19   0.373
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
3 observations deleted due to missingness
```

```
> out1 <- LSD.test(reg1, "Cond", p.adj = "none")
```

```
> out1
```

```
$`statistics`
```

```
  MSerror Df      Mean      CV
0.3729884 215 2.986175 20.45184
```

```
$parameters
```

```
 test p.adjusted name.t ntr alpha
Fisher-LSD      none   Cond   3  0.05
```

```
$means
```

```
  GunQMn      std      r      LCL      UCL      Min      Max      Q25
1 3.070340 0.6306536 70 2.926461 3.214219 1.733333 4.000000 2.683333
2 3.019048 0.6168185 72 2.877181 3.160915 1.600000 4.000000 2.666667
3 2.876063 0.5885790 75 2.737063 3.015064 1.266667 3.933333 2.433333
      Q50      Q75
1 3.200000 3.600000
2 3.000000 3.550000
3 2.933333 3.333333
```

```
$comparison
```

```
NULL
```

```
$groups
```

```
  GunQMn groups
1 3.070340     a
2 3.019048     a
```

```
3 2.876063      a
```

```
attr("class")  
[1] "group"
```

```
> std.error(na.omit(ggr$GunQmN[ggr$Cond == 1]))  
[1] 0.07537753  
> std.error(na.omit(ggr$GunQmN[ggr$Cond == 2]))  
[1] 0.07269275  
> std.error(na.omit(ggr$GunQmN[ggr$Cond == 3]))  
[1] 0.06796324
```

Guns in household by condition

```
> ggr$HaveGun <- ifelse(ggr$NumGuns > 0, 1, 0)  
> table(ggr$HaveGun, ggr$Cond)
```

```
      1  2  3  
0 39 49 49  
1 31 24 26
```

```
> table1 <- table(ggr$Cond, ggr$HaveGun)  
> chisq.post.hoc(table1, test='chisq.test')  
Adjusted p-values used the fdr method.
```

```
comparison raw.p adj.p  
1      1 vs. 2 0.2187 0.4652  
2      1 vs. 3 0.3102 0.4652  
3      2 vs. 3 0.9550 0.9550
```

Predicted interest in firearms by condition

```
> table(ggr$Cond, ggr$GunInt)
```

```
      0  1  2  3  4  
1 19 16 16 12  6  
2 18 12 12 24  7  
3 13 27 11 18  7
```

```
> table1 <- table(ggr$Cond, ggr$GunInt)  
> chisq.post.hoc(table1, simulate.p.value = TRUE, test='chisq.test')
```

Adjusted p-values used the *fdr* method.

```
  comparison raw.p adj.p
1    1 vs. 2 0.4178 0.4178
2    1 vs. 3 0.2064 0.3096
3    2 vs. 3 0.1124 0.3096
```

```
> reg1 <- aov(as.numeric(GunInt) ~ Cond, data = ggr)
> summary(reg1)
```

```
              Df Sum Sq Mean Sq F value Pr(>F)
Cond             2    3.1   1.574   0.917  0.401
Residuals      215  368.8   1.715
2 observations deleted due to missingness
```

```
> mean(na.omit(ggr$GunInt[ggr$Cond == 1]))
[1] 1.565217
```

```
> mean(na.omit(ggr$GunInt[ggr$Cond == 2]))
[1] 1.863014
```

```
> mean(na.omit(ggr$GunInt[ggr$Cond == 3]))
[1] 1.723684
```

```
> sd(na.omit(ggr$GunInt[ggr$Cond == 1]))
[1] 1.300207
```

```
> sd(na.omit(ggr$GunInt[ggr$Cond == 2]))
[1] 1.367429
```

```
> sd(na.omit(ggr$GunInt[ggr$Cond == 3]))
[1] 1.260674
```

```
> std.error(na.omit(ggr$GunInt[ggr$Cond == 1]))
[1] 0.1565265
```

```
> std.error(na.omit(ggr$GunInt[ggr$Cond == 2]))
[1] 0.1600455
```

```
> std.error(na.omit(ggr$GunInt[ggr$Cond == 3]))
[1] 0.1446092
```

Taken gun safety course by condition

```
> table(ggr$GunSafety, ggr$Cond)
```

```

      1  2  3
0 53 52 51
1 16 17 20
>
> table1 <- table(ggr$Cond, ggr$GunSafety)
> chisq.post.hoc(table1, simulate.p.value = TRUE, test='chisq.test')
Adjusted p-values used the fdr method.

  comparison raw.p adj.p
1    1 vs. 2 0.2999 0.4498
2    1 vs. 3 0.2734 0.4498
3    2 vs. 3 0.9190 0.9190

> reg1 <- aov(GunSafety ~ Cond, data = ggr)
> summary(reg1)

      Df Sum Sq Mean Sq F value Pr(>F)
Cond    2   0.09  0.04608   0.241  0.786
Residuals 206  39.47  0.19159

11 observations deleted due to missingness

```

Table 2

Played game before

```
> table(ggr$SeenMov, ggr$Cond)
```

```
   1  2  3
0  6  7  7
1 64 67 69
```

```
> reg1 <- aov(as.integer(SeenMov) ~ Cond, data = ggr)
```

```
> summary(reg1)
```

```
          Df Sum Sq Mean Sq F value Pr(>F)
Cond         2  0.003  0.00150   0.018  0.982
Residuals  217 18.179  0.08377
```

```
> out1 <- LSD.test(reg1, "Cond", p.adj = "none")
```

```
> out1
```

```
$`statistics`
```

```
      MSerror Df      Mean      CV
0.08377334 217 0.9090909 31.83799
```

```
$parameters
```

```
test p.adjusted name.t ntr alpha
Fisher-LSD      none   Cond   3  0.05
```

```
$means
```

```
as.integer(SeenMov)      std  r      LCL      UCL Min Max Q25 Q50 Q75
1      0.9142857 0.2819630 70 0.8461020 0.9824695  0  1  1  1  1
2      0.9054054 0.2946518 74 0.8390901 0.9717208  0  1  1  1  1
3      0.9078947 0.2910959 76 0.8424578 0.9733317  0  1  1  1  1
```

```
$comparison
```

```
NULL
```

```
$groups
```

```
as.integer(SeenMov) groups
1      0.9142857      a
3      0.9078947      a
2      0.9054054      a
```

```
attr(,"class")
[1] "group"
```

Seen other play game before

```
> table(ggr$SeenOther, ggr$Cond)
```

```
      1  2  3
0     3  6  6
1    67 68 70
```

```
>
> reg1 <- aov(as.integer(SeenOther) ~ Cond, data = ggr)
> summary(reg1)
```

```
              Df Sum Sq Mean Sq F value Pr(>F)
Cond           2  0.066  0.03301   0.515  0.598
Residuals    217 13.911  0.06411
```

```
> out1 <- LSD.test(reg1, "Cond", p.adj = "none")
> out1
```

```
$`statistics`
```

```
      MSerror  Df      Mean      CV
0.06410718 217 0.9318182 27.17203
```

```
$parameters
```

```
      test p.adjusted name.t ntr alpha
Fisher-LSD      none   Cond   3  0.05
```

```
$means
```

```
      as.integer(SeenOther)      std  r      LCL      UCL Min Max Q25 Q50 Q75
1                0.9571429 0.2039973 70 0.8974969 1.0167889  0  1  1  1  1
2                0.9189189 0.2748228 74 0.8609074 0.9769305  0  1  1  1  1
3                0.9210526 0.2714484 76 0.8638095 0.9782958  0  1  1  1  1
```

```
$comparison
```

```
NULL
```

```
$groups
```

```
      as.integer(SeenOther) groups
1                0.9571429      a
3                0.9210526      a
```

```
2          0.9189189      a
```

```
attr(,"class")  
[1] "group"
```

Familiar with game

```
> reg1 <- aov(Familiar ~ Cond, data = ggr)  
> summary(reg1)
```

```
          Df Sum Sq Mean Sq F value Pr(>F)  
Cond      2    0.3  0.1311  0.079  0.924  
Residuals 217 362.2  1.6690
```

```
> out1 <- LSD.test(reg1, "Cond", p.adj = "none")  
> out1
```

```
$`statistics`
```

```
  MSerror Df      Mean      CV  
1.669005 217 2.872727 44.9712
```

```
$parameters
```

```
 test p.adjusted name.t ntr alpha  
Fisher-LSD      none   Cond  3  0.05
```

```
$means
```

```
 as.numeric(Familiar)      std  r      LCL      UCL Min Max Q25 Q50 Q75  
1          2.900000 1.405476 70 2.595662 3.204338  0  4  2 3.5  4  
2          2.824324 1.317512 74 2.528326 3.120323  0  4  2 3.0  4  
3          2.894737 1.149828 76 2.602659 3.186815  0  4  2 3.0  4
```

```
$comparison
```

```
NULL
```

```
$groups
```

```
 as.numeric(Familiar) groups  
1          2.900000      a  
3          2.894737      a  
2          2.824324      a
```

```
attr(,"class")  
[1] "group"
```

```

> std.error(ggr$Familiar[ggr$Cond == 1])
[1] 0.1679865
> std.error(ggr$Familiar[ggr$Cond == 2])
[1] 0.1531577
> std.error(ggr$Familiar[ggr$Cond == 3])
[1] 0.1318944

```

Liked the game

```

> reg1 <- aov(LikeMV ~ Cond, data = ggr)
> summary(reg1)

```

```

          Df Sum Sq Mean Sq F value Pr(>F)
Cond        2    2.6    1.320   0.856  0.426
Residuals 217 334.9    1.543

```

```

> out1 <- LSD.test(reg1, "Cond", p.adj = "none")
> out1

```

```
$`statistics`
```

```

  MSerror Df      Mean      CV
1.543256 217 2.581818 48.11643

```

```
$parameters
```

```

  test p.adjusted name.t ntr alpha
Fisher-LSD      none   Cond   3  0.05

```

```
$means
```

```

  as.numeric(LikeMV)      std  r      LCL      UCL Min Max Q25 Q50 Q75
1      2.728571 1.317897 70 2.435922 3.021220  0  4  2  3 4.00
2      2.567568 1.135734 74 2.282938 2.852197  0  4  2  3 3.75
3      2.460526 1.269549 76 2.179667 2.741386  0  4  2  3 3.25

```

```
$comparison
```

```
NULL
```

```
$groups
```

```

  as.numeric(LikeMV) groups
1      2.728571      a
2      2.567568      a
3      2.460526      a

```

```

attr(,"class")
[1] "group"

> std.error(ggr$LikeMV[ggr$Cond == 1])
[1] 0.1575188
> std.error(ggr$LikeMV[ggr$Cond == 2])
[1] 0.1320264
> std.error(ggr$LikeMV[ggr$Cond == 3])
[1] 0.1456272

```

Game was exciting

```

> reg1 <- aov(ExciteMV ~ Cond, data = ggr)
> summary(reg1)

```

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
Cond	2	0.6	0.2895	0.197	0.822
Residuals	217	319.3	1.4716		

```

> out1 <- LSD.test(reg1, "Cond", p.adj = "none")
> out1

```

```
$`statistics`
```

MSerror	Df	Mean	CV
1.471567	217	2.136364	56.78255

```
$parameters
```

test	p.adjusted	name	t	ntr	alpha
Fisher-LSD	none	Cond		3	0.05

```
$means
```

	as.numeric(ExciteMV)	std	r	LCL	UCL	Min	Max	Q25	Q50	Q75
1	2.171429	1.250755	70	1.885658	2.457200	0	4	1	2	3
2	2.175676	1.089905	74	1.897736	2.453616	0	4	1	2	3
3	2.065789	1.289295	76	1.791531	2.340048	0	4	1	2	3

```
$comparison
```

```
NULL
```

```
$groups
```

```
as.numeric(ExciteMV) groups
```

```

2          2.175676      a
1          2.171429      a
3          2.065789      a

```

```

attr("class")
[1] "group"

```

```

> std.error(ggr$ExciteMV[ggr$Cond == 1])
[1] 0.1494939
> std.error(ggr$ExciteMV[ggr$Cond == 2])
[1] 0.1266989
> std.error(ggr$ExciteMV[ggr$Cond == 3])
[1] 0.1478922

```

Game was boring

```

> reg1 <- aov(BoringMV ~ Cond, data = ggr)
> summary(reg1)

```

```

          Df Sum Sq Mean Sq F value Pr(>F)
Cond       2   1.69   0.8462   0.669  0.513
Residuals 217 274.49  1.2649

```

```

> out1 <- LSD.test(reg1, "Cond", p.adj = "none")
> out1

```

```

$`statistics`

```

```

  MSerror Df      Mean      CV
1.264929 217 2.909091 38.66123

```

```

$parameters

```

```

      test p.adjusted name.t ntr alpha
Fisher-LSD      none   Cond   3  0.05

```

```

$means

```

```

as.numeric(BoringMV)      std  r      LCL      UCL Min Max Q25 Q50 Q75
1      2.957143 1.1090630 70 2.692195 3.222091  0  4 2.00  3  4
2      2.986486 0.9579265 74 2.728799 3.244174  0  4 2.25  3  4
3      2.789474 1.2787055 76 2.535199 3.043748  0  4 2.00  3  4

```

```

$comparison

```

```

NULL

```

```

$groups
  as.numeric(BoringMV) groups
2          2.986486      a
1          2.957143      a
3          2.789474      a

attr("class")
[1] "group"

> std.error(ggr$BoringMV[ggr$Cond == 1])
[1] 0.1325584
> std.error(ggr$BoringMV[ggr$Cond == 2])
[1] 0.1113567
> std.error(ggr$BoringMV[ggr$Cond == 3])
[1] 0.1466776

```

Game was fun

```

> reg1 <- aov(FunMV ~ Cond, data = ggr)
> summary(reg1)

          Df Sum Sq Mean Sq F value Pr(>F)
Cond         2     1.4   0.7194   0.454  0.636
Residuals  217  343.9   1.5849

```

```

> out1 <- LSD.test(reg1, "Cond", p.adj = "none")
> out1

$`statistics`
  MSerror Df      Mean      CV
1.584886 217 2.413636 52.15875

$parameters
      test p.adjusted name.t ntr alpha
Fisher-LSD      none   Cond   3  0.05

$means
  as.numeric(FunMV)      std  r      LCL      UCL Min Max Q25 Q50 Q75
1          2.514286 1.315932 70 2.217716 2.810856  0  4  2  3  4
2          2.418919 1.182136 74 2.130476 2.707362  0  4  1  3  3
3          2.315789 1.277607 76 2.031167 2.600412  0  4  1  2  3

```

```
$comparison
NULL
```

```
$groups
  as.numeric(FunMV) groups
1          2.514286      a
2          2.418919      a
3          2.315789      a
```

```
attr(,"class")
[1] "group"
```

```
> std.error(ggr$FunMV[ggr$Cond == 1])
[1] 0.157284
> std.error(ggr$FunMV[ggr$Cond == 2])
[1] 0.1374205
> std.error(ggr$FunMV[ggr$Cond == 3])
[1] 0.1465516
```

Part of the action

```
> reg1 <- aov(TrnsptMV ~ Cond, data = ggr)
> summary(reg1)
```

```
          Df Sum Sq Mean Sq F value Pr(>F)
Cond         2    1.0   0.5059    0.27  0.764
Residuals  217  406.3   1.8725
```

```
> out1 <- LSD.test(reg1, "Cond", p.adj = "none")
> out1
```

```
$`statistics`
  MSerror Df    Mean    CV
1.872505 217 1.854545 73.78601
```

```
$parameters
      test p.adjusted name.t ntr alpha
Fisher-LSD      none   Cond   3  0.05
```

```
$means
  as.numeric(TrnsptMV)      std  r      LCL      UCL Min Max Q25 Q50 Q75
```

```

1          1.942857 1.295317 70 1.620498 2.265216  0  4  1  2  3
2          1.851351 1.310468 74 1.537826 2.164877  0  4  1  2  3
3          1.776316 1.484127 76 1.466943 2.085688  0  4  0  2  3

```

```

$comparison
NULL

```

```

$groups
  as.numeric(TrnsptMV) groups
1          1.942857      a
2          1.851351      a
3          1.776316      a

```

```

attr("class")
[1] "group"

```

```

> std.error(ggr$TrnsptMV[ggr$Cond == 1])
[1] 0.15482
> std.error(ggr$TrnsptMV[ggr$Cond == 2])
[1] 0.1523388
> std.error(ggr$TrnsptMV[ggr$Cond == 3])
[1] 0.170241

```

Game was violent

```

> reg1 <- aov(ViolMV ~ Cond, data = ggr)
> summary(reg1)

```

```

          Df Sum Sq Mean Sq F value    Pr(>F)
Cond         2   40.7   20.35   18.18 5.04e-08 ***
Residuals  217  243.0    1.12
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

```

> out1 <- LSD.test(reg1, "Cond", p.adj = "none")
> out1

```

```

`$`statistics`
  MSerror Df      Mean      CV
  1.119739 217 1.077273 98.22743

```

```

$parameters

```

```
test p.adjusted name.t ntr alpha
Fisher-LSD      none   Cond   3  0.05
```

```
$means
  as.numeric(ViolMV)      std  r      LCL      UCL Min Max Q25 Q50 Q75
1          0.4714286 0.8465005 70 0.2221492 0.720708  0  4  0  0  1
2          1.2162162 1.1499883 74 0.9737677 1.458665  0  4  0  1  2
3          1.5000000 1.1372481 76 1.2607628 1.739237  0  4  1  1  2
```

```
$comparison
NULL
```

```
$groups
  as.numeric(ViolMV) groups
3          1.5000000      a
2          1.2162162      a
1          0.4714286      b
```

```
attr("class")
[1] "group"
```

```
> std.error(ggr$ViolMV[ggr$Cond == 1])
[1] 0.1011762
> std.error(ggr$ViolMV[ggr$Cond == 2])
[1] 0.1336834
> std.error(ggr$ViolMV[ggr$Cond == 3])
[1] 0.1304513
```

I want to play more

```
> reg1 <- aov(SeeMV ~ Cond, data = ggr)
> summary(reg1)
```

```
          Df Sum Sq Mean Sq F value Pr(>F)
Cond       2    4.0    2.013   0.934  0.394
Residuals 217 467.4    2.154
```

```
> out1 <- LSD.test(reg1, "Cond", p.adj = "none")
> out1
```

```
$`statistics`
  MSerror Df      Mean      CV
```

```
2.153717 217 2.290909 64.05993
```

```
$parameters
```

```
test p.adjusted name.t ntr alpha  
Fisher-LSD none Cond 3 0.05
```

```
$means
```

```
as.numeric(SeeMV) std r LCL UCL Min Max Q25 Q50 Q75  
1 2.485714 1.471890 70 2.139996 2.831433 0 4 1 3.0 4  
2 2.229730 1.521961 74 1.893485 2.565974 0 4 1 2.5 4  
3 2.171053 1.408433 76 1.839262 2.502844 0 4 1 2.0 3
```

```
$comparison
```

```
NULL
```

```
$groups
```

```
as.numeric(SeeMV) groups  
1 2.485714 a  
2 2.229730 a  
3 2.171053 a
```

```
attr("class")
```

```
[1] "group"
```

```
> std.error(ggr$SeeMV[ggr$Cond == 1])
```

```
[1] 0.1759245
```

```
> std.error(ggr$SeeMV[ggr$Cond == 2])
```

```
[1] 0.1769243
```

```
> std.error(ggr$SeeMV[ggr$Cond == 3])
```

```
[1] 0.1615584
```

A friend would want to play more

```
> reg1 <- aov(FrndSeeMV ~ Cond, data = ggr)
```

```
> summary(reg1)
```

```
          Df Sum Sq Mean Sq F value Pr(>F)  
Cond      2    3.4    1.694   0.952  0.388  
Residuals 216 384.3    1.779  
1 observation deleted due to missingness
```

```
> out1 <- LSD.test(reg1, "Cond", p.adj = "none")
```

```
> out1
```

```
$`statistics`
```

```
  MSerror Df      Mean      CV  
1.779258 216 2.296804 58.07586
```

```
$parameters
```

```
  test p.adjusted name.t ntr alpha  
Fisher-LSD      none   Cond   3 0.05
```

```
$means
```

```
as.numeric(FrndSeeMV)      std  r      LCL      UCL Min Max Q25 Q50 Q75  
1      2.142857 1.375623 70 1.828619 2.457095 0 4 1 2.0 3  
2      2.287671 1.358916 73 1.979958 2.595385 0 4 1 2.0 3  
3      2.447368 1.269065 76 2.145790 2.748947 0 4 2 2.5 4
```

```
$comparison
```

```
NULL
```

```
$groups
```

```
as.numeric(FrndSeeMV) groups  
3      2.447368      a  
2      2.287671      a  
1      2.142857      a
```

```
attr(,"class")
```

```
[1] "group"
```

```
> std.error(ggr$FrndSeeMV[ggr$Cond == 1])
```

```
[1] 0.1644184
```

```
> std.error(ggr$FrndSeeMV[ggr$Cond == 2])
```

```
[1] 0.159049
```

```
> std.error(ggr$FrndSeeMV[ggr$Cond == 3])
```

```
[1] 0.1455718
```

Chests opened

```
> reg1 <- aov(Chests ~ Cond, data = ggr)
```

```
> summary(reg1)
```

```
Cond      Df Sum Sq Mean Sq F value  Pr(>F)  
Cond      2   3913   1956.5     14 4.06e-06 ***
```

```

Residuals  105  14669  139.7
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
112 observations deleted due to missingness

> out1 <- LSD.test(reg1, "Cond", p.adj = "none")
> out1

$`statistics`
  MSerror Df      Mean      CV
139.7075 105 20.91667 56.50897

$parameters
      test p.adjusted name.t ntr alpha
Fisher-LSD      none   Cond   3  0.05

$means
  as.numeric(Chests)      std  r      LCL      UCL Min Max  Q25  Q50  Q75
1          29.70588 14.712455 34 25.68656 33.72520  2  71 20.00 30.0  38
2          17.94444 10.878404 36 14.03837 21.85052  0  39 11.75 17.0  24
3          15.86842  9.563927 38 12.06652 19.67032  1  32  7.00 17.5  24

$comparison
NULL

$groups
  as.numeric(Chests) groups
1          29.70588      a
2          17.94444      b
3          15.86842      b

attr(,"class")
[1] "group"

> std.error(na.omit(ggr$Chests[ggr$Cond == 1]))
[1] 2.523165
> std.error(na.omit(ggr$Chests[ggr$Cond == 2]))
[1] 1.813067
> std.error(na.omit(ggr$Chests[ggr$Cond == 3]))
[1] 1.551474

```

Monsters killed

```
> reg1 <- aov(Kills ~ Cond, data = ggr)
> summary(reg1)

          Df Sum Sq Mean Sq F value Pr(>F)
Cond       1    3.7    3.676   0.164  0.687
Residuals 72 1612.4  22.395
146 observations deleted due to missingness

> out1 <- LSD.test(reg1, "Cond", p.adj = "none")
> out1

$`statistics`
  MSerror Df      Mean      CV
22.39508 72 4.743243 99.77022

$parameters
      test p.adjusted name.t ntr alpha
Fisher-LSD      none   Cond   2  0.05

$means
  as.numeric(Kills)      std  r      LCL      UCL Min Max Q25 Q50 Q75
2          4.972222 4.668962 36 3.399930 6.544515  0 19 1.00  4 6.25
3          4.526316 4.791529 38 2.995959 6.056673  0 23 1.25  3 6.75

$comparison
NULL

$groups
  as.numeric(Kills) groups
2          4.972222      a
3          4.526316      a

attr("class")
[1] "group"

t.test(ggr2$Kills[ggr2$Cond == 2], ggr2$Kills[ggr2$Cond == 3])

welch Two Sample t-test
```

```

data: ggr2$kills[ggr2$Cond == 2] and ggr2$kills[ggr2$Cond == 3]
t = 0.40542, df = 71.94, p-value = 0.6864
alternative hypothesis: true difference in means is not equal to 0
95 percent confidence interval:
 -1.746673  2.638486
sample estimates:
mean of x mean of y
 4.972222  4.526316

```

```

> std.error(na.omit(ggr$kills[ggr$Cond == 2]))
[1] 0.7781603
> std.error(na.omit(ggr$kills[ggr$Cond == 3]))
[1] 0.7772886

```

Table 3

Trigger pulls

```

> reg1 <- aov(GunPull ~ Cond, data = ggr)
> summary(reg1)

          Df Sum Sq Mean Sq F value Pr(>F)
Cond         2   1250    625.0   3.624 0.0283 *
Residuals  217  37424    172.5
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

> out1 <- LSD.test(reg1, "Cond", p.adj = "none")
> out1

`$statistics`
  MSerror Df      Mean      CV
 172.463 217 4.390909 299.0842

$parameters
      test p.adjusted name.t ntr alpha
Fisher-LSD      none   Cond   3  0.05

$means
  GunPull      std  r      LCL      UCL Min Max Q25 Q50 Q75

```

```

1 2.142857  8.313226 70 -0.9508266  5.236541  0 50  0  0  0
2 3.202703  9.731997 74  0.1937936  6.211612  0 50  0  0  0
3 7.618421 18.526354 76  4.6493668 10.587475  0 87  0  0  0

```

```

$comparison
NULL

```

```

$groups
  GunPull groups
3 7.618421     a
2 3.202703     b
1 2.142857     b

```

```

attr("class")
[1] "group"

```

```

> std.error(ggr$GunPull[ggr$Cond == 1])
[1] 0.9936206
> std.error(ggr$GunPull[ggr$Cond == 2])
[1] 1.131322
> std.error(ggr$GunPull[ggr$Cond == 3])
[1] 2.125119

```

Shooting self or partner

```

> reg1 <- aov(SelfOther ~ Cond, data = ggr)
> summary(reg1)

```

```

          Df Sum Sq Mean Sq F value Pr(>F)
Cond        2    312   155.82   3.913 0.0214 *
Residuals 217   8640    39.82

```

```

---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

```

> out1 <- LSD.test(reg1, "Cond", p.adj = "none")
> out1

```

```

`statistics`
  MSerror Df      Mean      CV
39.81658 217 1.572727 401.2163

```

```

$parameters
  test p.adjusted name.t ntr alpha
Fisher-LSD      none   Cond   3  0.05

$means
  selfother      std  r      LCL      UCL Min Max Q25 Q50 Q75
1 0.1428571 0.9054699 70 -1.34362595 1.629340 0 7 0 0 0
2 1.4054054 5.7000815 74 -0.04034437 2.851155 0 43 0 0 0
3 3.0526316 9.1007615 76 1.62603165 4.479232 0 61 0 0 0

$comparison
NULL

$groups
  selfother groups
3 3.0526316 a
2 1.4054054 ab
1 0.1428571 b

attr(,"class")
[1] "group"

> std.error(ggr$selfother[ggr$Cond == 1])
[1] 0.1082244
> std.error(ggr$selfother[ggr$Cond == 2])
[1] 0.662621
> std.error(ggr$selfother[ggr$Cond == 3])
[1] 1.043929

```

Touched gun

```

> table(ggr$TouchGun, ggr$Cond)

      1  2  3
0 39 32 29
1 31 42 47

> reg1 <- aov(TouchGun ~ Cond, data = ggr)
> summary(reg1)

```

```

      Df Sum Sq Mean Sq F value Pr(>F)
Cond      2    1.18   0.5888   2.394 0.0936 .
Residuals 217   53.37   0.2459
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

```

> out1 <- LSD.test(reg1, "Cond", p.adj = "none") $`statistics`
      MSerror Df      Mean      CV
0.2459346 217 0.5454545 90.91828

```

```

$parameters
      test p.adjusted name.t ntr alpha
Fisher-LSD      none   Cond   3  0.05

```

```

$means
      TouchGun      std      r      LCL      UCL Min Max Q25 Q50 Q75
1 0.4428571 0.5003105 70 0.3260316 0.5596827 0 1 0 0 1
2 0.5675676 0.4987953 74 0.4539433 0.6811918 0 1 0 1 1
3 0.6184211 0.4890018 76 0.5063019 0.7305403 0 1 0 1 1

```

```

$comparison
NULL

```

```

$groups
      TouchGun groups
3 0.6184211      a
2 0.5675676     ab
1 0.4428571      b

```

```

attr(,"class")
[1] "group"

```

Time with gun

```

> reg1 <- aov(GunTime ~ Cond, data = ggr)
> summary(reg1)

```

```

      Df Sum Sq Mean Sq F value Pr(>F)
Cond      2   76347   38173   2.738 0.067 .
Residuals 217 3025941   13944

```

```

---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

> out1 <- LSD.test(reg1, "Cond", p.adj = "none")
> out1

$`statistics`
  MSerror Df      Mean      CV
13944.43 217 52.62273 224.4022

$parameters
      test p.adjusted name.t ntr alpha
Fisher-LSD      none   Cond   3  0.05

$means
  GunTime      std  r      LCL      UCL Min Max Q25 Q50  Q75
1 25.35714  78.11994 70 -2.461013 53.17530  0 452  0 0.0  5.75
2 65.74324 153.70173 74 38.687373 92.79911  0 879  0 1.0 29.00
3 64.96053 108.33804 76 38.263028 91.65802  0 430  0 8.5 71.50

$comparison
NULL

$groups
  GunTime groups
2 65.74324      a
3 64.96053      a
1 25.35714      b

attr("class")
[1] "group"

> std.error(ggr$GunTime[ggr$Cond == 1])
[1] 9.337119
> std.error(ggr$GunTime[ggr$Cond == 2])
[1] 17.86746
> std.error(ggr$GunTime[ggr$Cond == 3])
[1] 12.42723

```

Methods

Calculation of Cronbach's alpha for media diet

```
> ggr$TV1ExpS <- ggr$tv1*ggr$TV1Rating
> ggr$TV2ExpS <- ggr$tv2*ggr$TV2Rating
> ggr$TV3ExpS <- ggr$tv3*ggr$TV3Rating
>
> tvscale <- as.data.frame(cbind(ggr$TV1ExpS, ggr$TV2ExpS, ggr$TV3ExpS))
> ggr$MeanTVExp <- rowMeans(tvscale, na.rm = TRUE)
>
>
> ggr$M1ExpS <- ggr$mv1*ggr$MV1Rating
> ggr$M2ExpS <- ggr$mv2*ggr$MV2Rating
> ggr$M3ExpS <- ggr$mv3*ggr$MV3Rating
>
> mvscale <- as.data.frame(cbind(ggr$M1ExpS, ggr$M2ExpS, ggr$M3ExpS))
> ggr$MeanMVExp <- rowMeans(mvscale, na.rm = TRUE)
>
>
> ggr$VG2Rating <- as.numeric(ggr$VG2Rating)
> ggr$VG1ExpS <- ggr$vg1*ggr$VG1Rating
> ggr$VG2ExpS <- ggr$vg2*ggr$VG2Rating
> ggr$VG3ExpS <- ggr$vg3*ggr$VG3Rating
>
> vgscale <- as.data.frame(cbind(ggr$VG1ExpS, ggr$VG2ExpS, ggr$VG3ExpS))
> ggr$MeanVGExp <- rowMeans(vgscale, na.rm = TRUE)
>
> media <- as.data.frame(cbind(tvscale, mvscale, mvscale))
> names <- c("v1", "v2", "v3", "v4", "v5", "v6", "v7", "v8", "v9")
> names(media) <- names

> alpha(media, na.rm = TRUE)
```

Reliability analysis

Call: alpha(x = media)

raw_alpha	std.alpha	G6(smc)	average_r	S/N	ase	mean	sd	median_r
0.73	0.76	0.92	0.26	3.1	0.029	5.9	2	0.15

lower alpha upper 95% confidence boundaries

0.67 0.73 0.78

Reliability if an item is dropped:

	raw_alpha	std.alpha	G6(smc)	average_r	S/N	alpha	se	var.r	med.r
v1	0.72	0.75	0.93	0.28	3.0	0.030	0.074	0.16	
v2	0.74	0.76	0.94	0.29	3.2	0.028	0.076	0.16	
v3	0.71	0.75	0.92	0.27	3.0	0.031	0.074	0.16	
v4	0.69	0.72	0.86	0.24	2.5	0.032	0.058	0.15	
v5	0.70	0.72	0.86	0.24	2.6	0.032	0.058	0.14	
v6	0.70	0.73	0.86	0.25	2.7	0.031	0.059	0.15	
v7	0.69	0.72	0.86	0.24	2.5	0.032	0.058	0.15	
v8	0.70	0.72	0.86	0.24	2.6	0.032	0.058	0.14	
v9	0.70	0.73	0.86	0.25	2.7	0.031	0.059	0.15	

Item statistics

	n	raw.r	std.r	r.cor	r.drop	mean	sd
v1	217	0.55	0.48	0.36	0.35	7.4	4.3
v2	214	0.52	0.43	0.27	0.28	6.9	4.7
v3	211	0.57	0.49	0.38	0.38	7.3	4.3
v4	219	0.62	0.67	0.70	0.49	5.8	3.1
v5	218	0.59	0.65	0.68	0.47	5.0	2.8
v6	214	0.57	0.60	0.63	0.43	5.0	3.1
v7	219	0.62	0.67	0.70	0.49	5.8	3.1
v8	218	0.59	0.65	0.68	0.47	5.0	2.8
v9	214	0.57	0.60	0.63	0.43	5.0	3.1

Cronbach's alpha of trait aggression

```
> behavior <- as.data.frame(cbind(ggr$Beh1, ggr$Beh2, ggr$Beh3, ggr$Beh4, ggr$Beh5, ggr$Beh6, ggr$Beh7, ggr$Beh8, ggr$Beh9))  
> alpha(behavior, na.rm = TRUE)
```

Reliability analysis

Call: alpha(x = behavior)

raw_alpha	std.alpha	G6(smc)	average_r	S/N	ase	mean	sd	median_r
0.76	0.77	0.82	0.27	3.3	0.024	0.74	0.46	0.26

lower alpha upper 95% confidence boundaries
0.71 0.76 0.81

Reliability if an item is dropped:

	raw_alpha	std.alpha	G6(smc)	average_r	S/N	alpha	se	var.r	med.r
V1	0.73	0.75	0.75	0.27	3.0	0.028	0.021	0.29	
V2	0.76	0.77	0.77	0.30	3.4	0.024	0.013	0.29	
V3	0.75	0.76	0.81	0.28	3.1	0.026	0.035	0.28	
V4	0.73	0.74	0.80	0.26	2.8	0.028	0.036	0.24	
V5	0.74	0.75	0.80	0.27	2.9	0.027	0.034	0.26	
V6	0.73	0.73	0.79	0.26	2.8	0.028	0.031	0.24	
V7	0.75	0.76	0.81	0.29	3.2	0.025	0.030	0.29	
V8	0.73	0.73	0.79	0.26	2.8	0.027	0.029	0.24	
V9	0.73	0.73	0.78	0.26	2.8	0.027	0.028	0.25	

Item statistics

	n	raw.r	std.r	r.cor	r.drop	mean	sd
V1	78	0.63	0.59	0.61	0.52	1.31	0.96
V2	220	0.43	0.44	0.43	0.32	1.29	0.98
V3	220	0.54	0.54	0.44	0.38	0.61	0.75
V4	220	0.68	0.65	0.57	0.52	1.29	1.01
V5	220	0.59	0.61	0.52	0.45	0.39	0.64
V6	220	0.67	0.67	0.60	0.52	0.67	0.78
V7	220	0.48	0.51	0.41	0.33	0.31	0.52
V8	220	0.65	0.67	0.61	0.50	0.49	0.67
V9	215	0.67	0.67	0.63	0.50	0.66	0.80

Non missing response frequency for each item

	0	1	3	miss
V1	0.13	0.65	0.22	0.65
V2	0.15	0.62	0.22	0.00
V3	0.50	0.45	0.05	0.00
V4	0.17	0.60	0.23	0.00
V5	0.66	0.31	0.03	0.00
V6	0.46	0.48	0.06	0.00
V7	0.70	0.29	0.01	0.00
V8	0.58	0.39	0.03	0.00
V9	0.48	0.45	0.07	0.02

Cronbach's alpha of opinion toward guns

```
> gunopinion <- as.data.frame(cbind(ggr$GunQ1, ggr$GunQ2, ggr$GunQ3, ggr$GunQ4, ggr$GunQ5, ggr$GunQ6,
ggr$GunQ7, ggr$GunQ8, ggr$GunQ9, ggr$GunQ10, ggr$GunQ11, ggr$GunQ12, ggr$GunQ13, ggr$GunQ14, ggr$GunQ
15))
> alpha(gunopinion, na.rm =TRUE)
```

Reliability analysis

Call: alpha(x = gunopinion, na.rm = TRUE)

raw_alpha	std.alpha	G6(smc)	average_r	S/N	ase	mean	sd	median_r
0.85	0.86	0.89	0.28	5.9	0.015	3	0.61	0.24

lower alpha upper 95% confidence boundaries
 0.82 0.85 0.87

Reliability if an item is dropped:

	raw_alpha	std.alpha	G6(smc)	average_r	S/N	alpha	se	var.r	med.r
V1	0.83	0.84	0.88	0.28	5.4	0.016	0.024	0.23	
V2	0.83	0.84	0.88	0.28	5.4	0.016	0.022	0.23	
V3	0.83	0.84	0.88	0.28	5.4	0.016	0.023	0.24	
V4	0.82	0.84	0.87	0.27	5.2	0.017	0.022	0.23	
V5	0.84	0.85	0.88	0.28	5.5	0.016	0.023	0.24	
V6	0.83	0.84	0.88	0.28	5.4	0.016	0.023	0.23	
V7	0.83	0.84	0.88	0.27	5.3	0.017	0.024	0.23	
V8	0.83	0.84	0.88	0.28	5.3	0.016	0.024	0.23	
V9	0.84	0.84	0.88	0.28	5.4	0.016	0.023	0.24	
V10	0.84	0.85	0.88	0.28	5.5	0.016	0.023	0.23	
V11	0.84	0.85	0.88	0.28	5.6	0.016	0.023	0.24	
V12	0.83	0.85	0.88	0.28	5.5	0.016	0.025	0.23	
V13	0.84	0.85	0.88	0.29	5.7	0.016	0.026	0.26	
V14	0.85	0.86	0.89	0.31	6.2	0.014	0.021	0.28	
V15	0.85	0.86	0.88	0.30	5.9	0.015	0.023	0.28	

Item statistics

	n	raw.r	std.r	r.cor	r.drop	mean	sd
V1	216	0.62	0.63	0.59	0.54	3.2	1.03
V2	216	0.63	0.62	0.60	0.56	3.1	1.09
V3	215	0.63	0.60	0.58	0.53	2.9	1.30
V4	217	0.72	0.70	0.69	0.65	2.5	1.31
V5	214	0.57	0.58	0.54	0.50	3.2	0.92
V6	215	0.62	0.61	0.58	0.54	3.0	1.06
V7	216	0.67	0.67	0.65	0.58	3.1	1.26
V8	216	0.63	0.65	0.62	0.55	3.2	1.08
V9	215	0.56	0.61	0.59	0.49	3.6	0.69
V10	215	0.53	0.59	0.56	0.48	3.7	0.63
V11	215	0.49	0.55	0.52	0.42	3.7	0.71
V12	216	0.59	0.58	0.54	0.50	2.8	1.14

```

V13 214 0.52 0.50 0.44 0.42 2.2 1.19
V14 217 0.34 0.32 0.25 0.21 2.5 1.28
V15 215 0.46 0.41 0.36 0.33 2.2 1.27

```

Non missing response frequency for each item

```

      0    1    2    3    4 miss
V1 0.03 0.04 0.17 0.23 0.53 0.02
V2 0.04 0.04 0.18 0.26 0.48 0.02
V3 0.08 0.07 0.20 0.19 0.46 0.02
V4 0.08 0.17 0.26 0.17 0.32 0.01
V5 0.01 0.05 0.14 0.33 0.47 0.03
V6 0.02 0.09 0.19 0.29 0.41 0.02
V7 0.06 0.11 0.10 0.18 0.56 0.02
V8 0.04 0.05 0.12 0.27 0.52 0.02
V9 0.00 0.02 0.03 0.25 0.70 0.02
V10 0.00 0.01 0.05 0.12 0.82 0.02
V11 0.01 0.01 0.04 0.19 0.75 0.02
V12 0.02 0.12 0.31 0.16 0.38 0.02
V13 0.07 0.17 0.43 0.10 0.22 0.03
V14 0.06 0.17 0.29 0.13 0.35 0.01
V15 0.08 0.23 0.34 0.09 0.26 0.02

```

Results

Random Assignment Check

Finding handgun

```
> table(gg.trim$FoundGun, gg.trim$Cond)
```

```

      1  2  3
0  8  8  6
1 70 74 76

```

```
> fisher.test(gg.trim$FoundGun, gg.trim$Cond)
```

Fisher's Exact Test for Count Data

data: gg.trim\$FoundGun and gg.trim\$Cond

```
p-value = 0.8506  
alternative hypothesis: two.sided
```

```
> table(ggr$TouchGun, ggr$ToldAbtGun)
```

```
   0  1  
0 87 13  
1 85 35
```

```
> table(ggr$TouchGun, ggr$Cond)
```

```
   1  2  3  
0 39 32 29  
1 31 42 47
```

```
> table(ggr$OnePull)
```

```
  0  1  
181 39
```

```
> sum(ggr$GunPull)
```

```
[1] 966
```

```
> sum(ggr$SelfOther)
```

```
[1] 346
```

Touched handgun

```
> table1 <- table(ggr$Cond, ggr$TouchGun)
```

```
> table1
```

```
   0  1  
1 39 31  
2 32 42  
3 29 47
```

```
> chisq.post.hoc(table1)
```

```
Adjusted p-values used the fdr method.
```

```
  comparison raw.p adj.p
1    1 vs. 2 0.1820 0.2730
2    1 vs. 3 0.0461 0.1382
3    2 vs. 3 0.6183 0.6183
```

```
> chisq.test(table1)
```

Pearson's Chi-squared test

```
data: table1
X-squared = 4.7499, df = 2, p-value = 0.09302
```

```
> fisher.test(ggr$Cond, ggr$TouchGun)
```

Fisher's Exact Test for Count Data

```
data: ggr$Cond and ggr$TouchGun
p-value = 0.09477
alternative hypothesis: two.sided
```

```
> chisq.test(table(ggr$Cond[ggr$Cond != 2], ggr$TouchGun[ggr$Cond != 2]))
```

Pearson's Chi-squared test with Yates' continuity correction

```
data: table(ggr$Cond[ggr$Cond != 2], ggr$TouchGun[ggr$Cond != 2])
X-squared = 3.8357, df = 1, p-value = 0.05017
```

```
> mean(na.omit(ggr2$GunTime[ggr2$TouchGun == 1]))
```

```
[1] 96.475
```

```
> sd(na.omit(ggr2$GunTime[ggr2$TouchGun == 1]))
```

```
[1] 147.6599
```

Models

```
. log using "Z:\BAC_0658_Bushman\programs\Games_and_Guns_trim_non_finders", replace
```

name: <unnamed>
log: Z:\BAC_0658_Bushman\programs\Games_and_Guns_trim_non_finders.smcl
log type: smcl
opened on: 27 Mar 2019, 10:32:00

```
.  
.  
.  
. use "Z:\BAC_0658_Bushman\data\Games_and_Guns_trim_non_finders_removed.dta"  
  
.  
.  
.  
. recode NumGuns 0=0 1/6=1, gen(AnyGunsInHouse)  
(52 differences between NumGuns and AnyGunsInHouse)  
  
.  
. recode Cond 2=1 1=0 3=0, gen(Condition_Sword)  
(220 differences between Cond and Condition_Sword)  
  
.  
. recode Cond 3=1 1=0 2=0, gen(Condition_Gun)  
(220 differences between Cond and Condition_Gun)  
  
.  
.  
.  
. * Full Models  
  
.  
. nbreg GunPull Condition_Gun Condition_Sword Sex GunQMn BehMean MediaExpS GunInt Age AnyGunsInHouse GunSafety, clu  
> ster(Pair)
```

Fitting Poisson model:

Iteration 0: log pseudolikelihood = -1256.9706
 Iteration 1: log pseudolikelihood = -1256.7198
 Iteration 2: log pseudolikelihood = -1256.7198

Fitting constant-only model:

Iteration 0: log pseudolikelihood = -502.14571
 Iteration 1: log pseudolikelihood = -238.09343
 Iteration 2: log pseudolikelihood = -236.81481
 Iteration 3: log pseudolikelihood = -236.81448
 Iteration 4: log pseudolikelihood = -236.81448

Fitting full model:

Iteration 0: log pseudolikelihood = -232.8013
 Iteration 1: log pseudolikelihood = -225.99382
 Iteration 2: log pseudolikelihood = -225.42039
 Iteration 3: log pseudolikelihood = -225.41267
 Iteration 4: log pseudolikelihood = -225.41266

Negative binomial regression Number of obs = 205
 Wald chi2(10) = 67.72
 Dispersion = mean Prob > chi2 = 0.0000
 Log pseudolikelihood = -225.41266 Pseudo R2 = 0.0481

(Std. Err. adjusted for 108 clusters in Pair)

	Robust					
GunPull	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
Condition_Gun	.8567005	.9007843	0.95	0.342	-.9088042	2.622205
Condition_Sword	.8979552	.9807646	0.92	0.360	-1.024308	2.820218
Sex	-.4323485	.6143092	-0.70	0.482	-1.636372	.7716754

GunQMn		-1.316456	.5194309	-2.53	0.011	-2.334522	-.2983903
BehMean		2.604139	.7455959	3.49	0.000	1.142798	4.06548
MediaExpS		.3396133	.1744809	1.95	0.052	-.002363	.6815896
GunInt		1.039165	.2337897	4.44	0.000	.5809454	1.497384
Age		-.2225586	.1589667	-1.40	0.162	-.5341277	.0890104
AnyGunsInHouse		-.1730327	.9157799	-0.19	0.850	-1.967928	1.621863
GunSafety		-1.891773	.8514474	-2.22	0.026	-3.560579	-.2229667
_cons		.5042148	2.064174	0.24	0.807	-3.541491	4.549921
-----+-----							
/lnalpha		2.798281	.2356222			2.33647	3.260092
-----+-----							
alpha		16.4164	3.868068			10.34465	26.05193

```
. nbreg SelfOther Condition_Gun Condition_Sword Sex GunQMn BehMean MediaExpS GunInt Age AnyGunsInHouse GunSafety, c
> luster(Pair)
```

Fitting Poisson model:

```
Iteration 0: log pseudolikelihood = -518.2505
Iteration 1: log pseudolikelihood = -513.78261
Iteration 2: log pseudolikelihood = -513.7114
Iteration 3: log pseudolikelihood = -513.71138
```

Fitting constant-only model:

```
Iteration 0: log pseudolikelihood = -339.48177
Iteration 1: log pseudolikelihood = -151.59496
Iteration 2: log pseudolikelihood = -151.52021
Iteration 3: log pseudolikelihood = -151.52013
Iteration 4: log pseudolikelihood = -151.52013
```

Fitting full model:

Iteration 0: log pseudolikelihood = -148.16189 (not concave)
 Iteration 1: log pseudolikelihood = -143.02753
 Iteration 2: log pseudolikelihood = -139.04037
 Iteration 3: log pseudolikelihood = -136.67917
 Iteration 4: log pseudolikelihood = -136.54239
 Iteration 5: log pseudolikelihood = -136.54193
 Iteration 6: log pseudolikelihood = -136.54193

Negative binomial regression Number of obs = 205
 Wald chi2(10) = 113.99
 Dispersion = mean Prob > chi2 = 0.0000
 Log pseudolikelihood = -136.54193 Pseudo R2 = 0.0989

(Std. Err. adjusted for 108 clusters in Pair)

	Robust					
SelfOther	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
Condition_Gun	1.929443	.9131453	2.11	0.035	.139711	3.719175
Condition_Sword	2.50358	.9500812	2.64	0.008	.6414548	4.365705
Sex	-.2898032	.5640914	-0.51	0.607	-1.395402	.8157958
GunQMn	-.2107497	.5234226	-0.40	0.687	-1.236639	.8151396
BehMean	3.246105	.7484483	4.34	0.000	1.779173	4.713036
MediaExpS	.6297028	.1900981	3.31	0.001	.2571174	1.002288
GunInt	1.011085	.1956327	5.17	0.000	.6276521	1.394518
Age	-.3904776	.1323407	-2.95	0.003	-.6498606	-.1310946
AnyGunsInHouse	-3.001787	1.036508	-2.90	0.004	-5.033305	-.9702687
GunSafety	1.184803	1.10168	1.08	0.282	-.974451	3.344057
_cons	-6.133177	2.237096	-2.74	0.006	-10.5178	-1.74855
/lnalpha	2.741236	.2948757			2.16329	3.319182
alpha	15.50614	4.572383			8.699714	27.63772

```
. nbreg GunTime Condition_Gun Condition_Sword Sex GunQMn BehMean MediaExpS GunInt Age AnyGunsInHouse GunSafety, clu  
> ster(Pair)
```

Fitting Poisson model:

```
Iteration 0: log pseudolikelihood = -10997.047  
Iteration 1: log pseudolikelihood = -10994.005  
Iteration 2: log pseudolikelihood = -10994.005
```

Fitting constant-only model:

```
Iteration 0: log pseudolikelihood = -1001.5195  
Iteration 1: log pseudolikelihood = -671.59079  
Iteration 2: log pseudolikelihood = -671.52093  
Iteration 3: log pseudolikelihood = -671.52091
```

Fitting full model:

```
Iteration 0: log pseudolikelihood = -662.84693  
Iteration 1: log pseudolikelihood = -656.98485  
Iteration 2: log pseudolikelihood = -655.60209  
Iteration 3: log pseudolikelihood = -655.58901  
Iteration 4: log pseudolikelihood = -655.589
```

```
Negative binomial regression      Number of obs   =    205  
                                Wald chi2(10)    =    57.62  
Dispersion      = mean          Prob > chi2     =    0.0000  
Log pseudolikelihood = -655.589   Pseudo R2     =    0.0237
```

(Std. Err. adjusted for 108 clusters in Pair)

GunTime	Robust	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
Condition_Gun		.9381426	.6056702	1.55	0.121	-.2489492	2.125234
Condition_Sword		1.096266	.6685329	1.64	0.101	-.2140339	2.406567
Sex		.1163542	.3482742	0.33	0.738	-.5662506	.7989591
GunQMn		-.9139013	.362132	-2.52	0.012	-1.623667	-.2041357
BehMean		1.439592	.4896752	2.94	0.003	.4798466	2.399338
MediaExpS		.0347457	.1076068	0.32	0.747	-.1761598	.2456511
GunInt		.5017217	.153473	3.27	0.001	.2009202	.8025233
Age		-.2967501	.1247082	-2.38	0.017	-.5411737	-.0523265
AnyGunsInHouse		.5678246	.5243892	1.08	0.279	-.4599594	1.595609
GunSafety		-2.25475	.6207003	-3.63	0.000	-3.4713	-1.038199
_cons		6.365413	1.778243	3.58	0.000	2.88012	9.850705
/lnalpha		1.973591	.1435721			1.692195	2.254987
alpha		7.196471	1.033213			5.431387	9.535169

.
.
.
.* Mini Models:

. nbreg GunPull Condition_Gun Condition_Sword Sex, cluster(Pair)

Fitting Poisson model:

Iteration 0: log pseudolikelihood = -1955.2704

Iteration 1: log pseudolikelihood = -1955.2647

Iteration 2: log pseudolikelihood = -1955.2647

. nbreg SelfOther Condition_Gun Condition_Sword Sex, cluster(Pair)

Fitting Poisson model:

Iteration 0: log pseudolikelihood = -804.88059
Iteration 1: log pseudolikelihood = -803.21969
Iteration 2: log pseudolikelihood = -803.20183
Iteration 3: log pseudolikelihood = -803.20183

Fitting constant-only model:

Iteration 0: log pseudolikelihood = -378.17837
Iteration 1: log pseudolikelihood = -172.61838
Iteration 2: log pseudolikelihood = -172.61544
Iteration 3: log pseudolikelihood = -172.61544

Fitting full model:

Iteration 0: log pseudolikelihood = -169.82842
Iteration 1: log pseudolikelihood = -168.38404
Iteration 2: log pseudolikelihood = -168.36687
Iteration 3: log pseudolikelihood = -168.36685
Iteration 4: log pseudolikelihood = -168.36685

Negative binomial regression Number of obs = 220
 Wald chi2(3) = 8.42
Dispersion = mean Prob > chi2 = 0.0380
Log pseudolikelihood = -168.36685 Pseudo R2 = 0.0246

(Std. Err. adjusted for 110 clusters in Pair)

| Robust

SelfOther	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
Condition_Gun	2.910076	1.08019	2.69	0.007	.7929424	5.027209
Condition_Sword	2.080395	1.120358	1.86	0.063	-.115465	4.276256
Sex	.4002382	.3952875	1.01	0.311	-.3745111	1.174987
_cons	-2.074133	1.039298	-2.00	0.046	-4.111119	-.0371472
/lnalpha	3.23901	.2960979			2.658669	3.819352
alpha	25.50847	7.553003			14.27728	45.57465

. nbreg GunTime Condition_Gun Condition_Sword Sex, cluster(Pair)

Fitting Poisson model:

Iteration 0: log pseudolikelihood = -15921.501
 Iteration 1: log pseudolikelihood = -15921.338
 Iteration 2: log pseudolikelihood = -15921.338

Fitting constant-only model:

Iteration 0: log pseudolikelihood = -1093.9698
 Iteration 1: log pseudolikelihood = -743.63725
 Iteration 2: log pseudolikelihood = -743.58569
 Iteration 3: log pseudolikelihood = -743.58568

Fitting full model:

Iteration 0: log pseudolikelihood = -740.2443
 Iteration 1: log pseudolikelihood = -739.83206
 Iteration 2: log pseudolikelihood = -739.81562
 Iteration 3: log pseudolikelihood = -739.81561

Negative binomial regression Number of obs = 220
 Wald chi2(3) = 10.28
 Dispersion = mean Prob > chi2 = 0.0164
 Log pseudolikelihood = -739.81561 Pseudo R2 = 0.0051

(Std. Err. adjusted for 110 clusters in Pair)

	Robust						
GunTime	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]		
Condition_Gun	.9301017	.530476	1.75	0.080	-.1096122	1.969816	
Condition_Sword	.6860791	.5756471	1.19	0.233	-.4421685	1.814327	
Sex	.773064	.3587233	2.16	0.031	.0699792	1.476149	
_cons	2.813095	.4511453	6.24	0.000	1.928866	3.697323	
/lnalpha	2.107779	.1402549			1.832885	2.382674	
alpha	8.229946	1.15429			6.251896	10.83383	

```
.
.
.
. * For percentiles of Predicted values, by Condition
.
. sort Cond
.
.
. nbreg GunPull Condition_Gun Condition_Sword Sex GunQMn BehMean MediaExpS GunInt Age AnyGunsInHouse GunSafety, clu
> ster(Pair)
```

Fitting Poisson model:

Iteration 0: log pseudolikelihood = -1256.9706
Iteration 1: log pseudolikelihood = -1256.7198
Iteration 2: log pseudolikelihood = -1256.7198

Fitting constant-only model:

Iteration 0: log pseudolikelihood = -502.14571
Iteration 1: log pseudolikelihood = -238.09343
Iteration 2: log pseudolikelihood = -236.81481
Iteration 3: log pseudolikelihood = -236.81448
Iteration 4: log pseudolikelihood = -236.81448

Fitting full model:

Iteration 0: log pseudolikelihood = -232.8013
Iteration 1: log pseudolikelihood = -225.99382
Iteration 2: log pseudolikelihood = -225.42039
Iteration 3: log pseudolikelihood = -225.41267
Iteration 4: log pseudolikelihood = -225.41266

Negative binomial regression Number of obs = 205
 Wald chi2(10) = 67.72
Dispersion = mean Prob > chi2 = 0.0000
Log pseudolikelihood = -225.41266 Pseudo R2 = 0.0481

(Std. Err. adjusted for 108 clusters in Pair)

		Robust					
	GunPull	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
	Condition_Gun	.8567005	.9007843	0.95	0.342	-.9088042 2.622205	

Condition_Sword		.8979552	.9807646	0.92	0.360	-1.024308	2.820218
Sex		-.4323485	.6143092	-0.70	0.482	-1.636372	.7716754
GunQMn		-1.316456	.5194309	-2.53	0.011	-2.334522	-.2983903
BehMean		2.604139	.7455959	3.49	0.000	1.142798	4.06548
MediaExpS		.3396133	.1744809	1.95	0.052	-.002363	.6815896
GunInt		1.039165	.2337897	4.44	0.000	.5809454	1.497384
Age		-.2225586	.1589667	-1.40	0.162	-.5341277	.0890104
AnyGunsInHouse		-.1730327	.9157799	-0.19	0.850	-1.967928	1.621863
GunSafety		-1.891773	.8514474	-2.22	0.026	-3.560579	-.2229667
_cons		.5042148	2.064174	0.24	0.807	-3.541491	4.549921
-----+-----							
/lnalpha		2.798281	.2356222			2.33647	3.260092
-----+-----							
alpha		16.4164	3.868068			10.34465	26.05193

.
 . predict GunPull_full_Predicted, n
 (15 missing values generated)

.
 . by Cond: summarize GunPull_full_Predicted, detail

 -> Cond = 1

Predicted number of events

Percentiles		Smallest		
1%	.0032399	.0032399		
5%	.0096932	.0051573		
10%	.0263433	.0073157	Obs	69
25%	.0850878	.0096932	Sum of Wgt.	69

50%	.3814798	Mean	4.979842
	Largest	Std. Dev.	16.55556
75%	2.019599	29.10579	
90%	4.859893	47.56834	Variance 274.0864
95%	29.10579	82.95983	Skewness 4.551195
99%	99.00909	99.00909	Kurtosis 23.6044

-> Cond = 2

Predicted number of events

	Percentiles	Smallest		
1%	.0163895	.0163895		
5%	.0268972	.0171086		
10%	.0559954	.0248042	Obs	66
25%	.2824344	.0268972	Sum of Wgt.	66
50%	1.414626	Mean	96.95142	
	Largest	Std. Dev.	577.6941	
75%	8.781828	198.2073		
90%	52.15439	447.0967	Variance	333730.5
95%	198.2073	670.8679	Skewness	7.595813
99%	4648.285	4648.285	Kurtosis	60.20185

-> Cond = 3

Predicted number of events

	Percentiles	Smallest		
1%	.0190095	.0190095		
5%	.0693943	.0461797		
10%	.1261393	.0508793	Obs	70

25%	.3660958	.0693943	Sum of Wgt.	70
50%	1.755321		Mean	33.47019
			Largest	Std. Dev.
				172.9596
75%	10.31682	60.31218		
90%	31.80958	183.7684	Variance	29915.01
95%	60.31218	238.2762	Skewness	7.676411
99%	1427.773	1427.773	Kurtosis	62.13217

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. nbreg GunTime Condition_Gun Condition_Sword Sex GunQMn BehMean MediaExpS GunInt Age AnyGunsInHouse GunSafety, clu
> ster(Pair)

Fitting Poisson model:

Iteration 0: log pseudolikelihood = -10997.047
 Iteration 1: log pseudolikelihood = -10994.005
 Iteration 2: log pseudolikelihood = -10994.005

Fitting constant-only model:

Iteration 0: log pseudolikelihood = -1001.5195
 Iteration 1: log pseudolikelihood = -671.59079
 Iteration 2: log pseudolikelihood = -671.52093
 Iteration 3: log pseudolikelihood = -671.52091

Fitting full model:

Iteration 0: log pseudolikelihood = -662.84693
 Iteration 1: log pseudolikelihood = -656.98485
 Iteration 2: log pseudolikelihood = -655.60209

Iteration 3: log pseudolikelihood = -655.58901

Iteration 4: log pseudolikelihood = -655.589

Negative binomial regression Number of obs = 205

 Wald chi2(10) = 57.62

Dispersion = mean Prob > chi2 = 0.0000

Log pseudolikelihood = -655.589 Pseudo R2 = 0.0237

(Std. Err. adjusted for 108 clusters in Pair)

	Robust					
GunTime	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
Condition_Gun	.9381426	.6056702	1.55	0.121	-.2489492	2.125234
Condition_Sword	1.096266	.6685329	1.64	0.101	-.2140339	2.406567
Sex	.1163542	.3482742	0.33	0.738	-.5662506	.7989591
GunQMn	-.9139013	.362132	-2.52	0.012	-1.623667	-.2041357
BehMean	1.439592	.4896752	2.94	0.003	.4798466	2.399338
MediaExpS	.0347457	.1076068	0.32	0.747	-.1761598	.2456511
GunInt	.5017217	.153473	3.27	0.001	.2009202	.8025233
Age	-.2967501	.1247082	-2.38	0.017	-.5411737	-.0523265
AnyGunsInHouse	.5678246	.5243892	1.08	0.279	-.4599594	1.595609
GunSafety	-2.25475	.6207003	-3.63	0.000	-3.4713	-1.038199
_cons	6.365413	1.778243	3.58	0.000	2.88012	9.850705
/lnalpha	1.973591	.1435721			1.692195	2.254987
alpha	7.196471	1.033213			5.431387	9.535169

. predict GunTime_full_Predicted, n
(15 missing values generated)

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. by Cond: summarize GunTime_full_Predicted, detail

-> Cond = 1

Predicted number of events

Percentiles Smallest
1% .4991218 .4991218
5% .7290981 .6229148
10% 2.123777 .6700597 Obs 69
25% 4.686748 .7290981 Sum of Wgt. 69

50% 15.1519 Mean 25.29234
 Largest Std. Dev. 38.77802
75% 21.56497 106.4454
90% 72.38731 109.1912 Variance 1503.735
95% 106.4454 133.4189 Skewness 3.32254
99% 241.966 241.966 Kurtosis 16.44027

-> Cond = 2

Predicted number of events

Percentiles Smallest
1% 1.153433 1.153433
5% 2.539562 1.613829
10% 5.113981 2.40022 Obs 66
25% 12.75492 2.539562 Sum of Wgt. 66

50% 33.38746 Mean 135.7823
 Largest Std. Dev. 303.6202

75%	88.27286	530.8691		
90%	343.7274	1007.138	Variance	92185.24
95%	530.8691	1313.908	Skewness	3.918153
99%	1813.469	1813.469	Kurtosis	19.2524

-> Cond = 3

Predicted number of events

	Percentiles	Smallest		
1%	1.120996	1.120996		
5%	4.314032	2.534232		
10%	6.765446	2.538124	Obs	70
25%	19.25331	4.314032	Sum of Wgt.	70
50%	41.43936		Mean	122.3574
		Largest	Std. Dev.	308.8151
75%	104.22	512.9313		
90%	331.112	513.9496	Variance	95366.75
95%	512.9313	545.1101	Skewness	6.328484
99%	2447.313	2447.313	Kurtosis	47.38929

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. nbreg SelfOther Condition_Gun Condition_Sword Sex GunQMn BehMean MediaExpS GunInt Age AnyGunsInHouse GunSafety, c
> luster(Pair)

Fitting Poisson model:

Iteration 0: log pseudolikelihood = -518.2505
Iteration 1: log pseudolikelihood = -513.78261

Iteration 2: log pseudolikelihood = -513.7114
 Iteration 3: log pseudolikelihood = -513.71138

Fitting constant-only model:

Iteration 0: log pseudolikelihood = -339.48177
 Iteration 1: log pseudolikelihood = -151.59496
 Iteration 2: log pseudolikelihood = -151.52021
 Iteration 3: log pseudolikelihood = -151.52013
 Iteration 4: log pseudolikelihood = -151.52013

Fitting full model:

Iteration 0: log pseudolikelihood = -148.16189 (not concave)
 Iteration 1: log pseudolikelihood = -143.02753
 Iteration 2: log pseudolikelihood = -139.04037
 Iteration 3: log pseudolikelihood = -136.67917
 Iteration 4: log pseudolikelihood = -136.54239
 Iteration 5: log pseudolikelihood = -136.54193
 Iteration 6: log pseudolikelihood = -136.54193

Negative binomial regression Number of obs = 205
 Wald chi2(10) = 113.99
 Dispersion = mean Prob > chi2 = 0.0000
 Log pseudolikelihood = -136.54193 Pseudo R2 = 0.0989

(Std. Err. adjusted for 108 clusters in Pair)

	Robust					
SelfOther	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
Condition_Gun	1.929443	.9131453	2.11	0.035	.139711	3.719175
Condition_Sword	2.50358	.9500812	2.64	0.008	.6414548	4.365705
Sex	-.2898032	.5640914	-0.51	0.607	-1.395402	.8157958

GunQMn		-0.2107497	.5234226	-0.40	0.687	-1.236639	.8151396
BehMean		3.246105	.7484483	4.34	0.000	1.779173	4.713036
MediaExpS		.6297028	.1900981	3.31	0.001	.2571174	1.002288
GunInt		1.011085	.1956327	5.17	0.000	.6276521	1.394518
Age		-.3904776	.1323407	-2.95	0.003	-.6498606	-.1310946
AnyGunsInHouse		-3.001787	1.036508	-2.90	0.004	-5.033305	-.9702687
GunSafety		1.184803	1.10168	1.08	0.282	-.974451	3.344057
_cons		-6.133177	2.237096	-2.74	0.006	-10.5178	-1.74855
-----+-----							
/lnalpha		2.741236	.2948757			2.16329	3.319182
-----+-----							
alpha		15.50614	4.572383			8.699714	27.63772

. predict SelfOther_full_Predicted, n
(15 missing values generated)

. by Cond: summarize SelfOther_full_Predicted, detail

-> Cond = 1

Predicted number of events

Percentiles	Smallest						
1%	7.90e-06	7.90e-06					
5%	.0001116	.000051					
10%	.0003569	.0000746	Obs	69			
25%	.0042411	.0001116	Sum of Wgt.	69			
50%	.0290138		Mean	2.508161			
	Largest		Std. Dev.	13.00765			

75%	.103546	.6756673		
90%	.4075507	17.7336	Variance	169.1989
95%	.6756673	59.63063	Skewness	5.751722
99%	89.81816	89.81816	Kurtosis	35.86833

-> Cond = 2

Predicted number of events

Percentiles	Smallest			
1%	.0006997	.0006997		
5%	.005785	.001184		
10%	.0167463	.0039142	Obs	66
25%	.0790556	.005785	Sum of Wgt.	66
50%	.4702139		Mean	87.00368
		Largest	Std. Dev.	529.6397
75%	2.422721	154.4388		
90%	21.97327	292.5996	Variance	280518.2
95%	154.4388	878.9033	Skewness	7.439806
99%	4224.587	4224.587	Kurtosis	58.26019

-> Cond = 3

Predicted number of events

Percentiles	Smallest			
1%	.001309	.001309		
5%	.00724	.0032514		
10%	.0088509	.0033476	Obs	70
25%	.0393573	.00724	Sum of Wgt.	70

50%	.2314704	Mean	13.4211
	Largest	Std. Dev.	52.22407
75%	2.522074	34.00886	
90%	19.01313	168.8974	Variance 2727.354
95%	34.00886	268.6051	Skewness 4.775398
99%	310.9273	310.9273	Kurtosis 25.02488